

I hereby certify that this correspondence is being filed via  
EFS-Web with the United States Patent and Trademark Office  
on April 7, 2010

PATENT

TOWNSEND and TOWNSEND and CREW LLP

By: Julie Taylor Clough

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

**SEE ATTACHED SCHEDULE**

Application No.:

Filed:

For:

Customer No.: 20350

Confirmation No.:

Examiner:

Art Unit:

**SPECIFIC POWER OF  
ATTORNEY and CHANGE OF  
CORRESPONDENCE ADDRESS  
(PATENT)**

Mail Stop Post Issue  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Commissioner:

SEIKO EPSON CORPORATION, owner of the entire right, title and interest in the above patent assets by virtue of an assignment recorded at Reel 023538, Frame 0889 of the U.S. Patent and Trademark Office microfilm records, hereby appoints the practitioners associated with Townsend and Townsend and Crew, LLP, Customer No. 20350 as attorneys of record to act on behalf of SEIKO EPSON CORPORATION, and to transact all business in the U.S. Patent and Trademark Office for the listed patents.

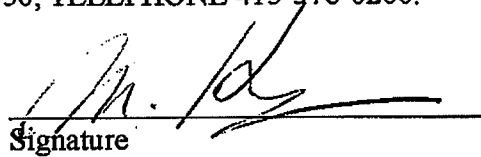
The undersigned has reviewed the chain of title and confirms that the aforesaid title is in the owner. The undersigned is authorized to execute this document as, or on behalf of, the owner.

PATENT

Application No.: **SEE ATTACHED**  
**SCHEDULE**  
Page 2

ALL CORRESPONDENCE IN CONNECTION WITH THESE  
APPLICATIONS SHOULD BE SENT TO TOWNSEND AND TOWNSEND AND  
CREW, LLP, CUSTOMER NO. 20350, TELEPHONE 415-576-0200.

March 8, 2010  
Date

  
Signature

Masataka Kamiyanagi  
Typed Name

Managing Executive Officer  
Title (if acting on behalf of Owner)

# SCHEDULE OF PATENTS AND PATENT APPLICATIONS

Type	Pat Number	Publication number	App Number	AppFiling Date	Country
Granted Patent	5805233		08614511	3131996	United States
Granted Patent	RE36654		08692300	851996	United States
Granted Patent	RE38618		09660435	982000	United States
Granted Patent	RE40675		10851979	5202004	United States
Granted Patent	4917465		07402134	911989	United States
Granted Patent	5124818		07572732	8241990	United States
Granted Patent	5204768		07654485	2121991	United States
Granted Patent	5276436		07616178	11191990	United States
Granted Patent	5300944		07950451	9241992	United States
Granted Patent	5321450		08059550	5111993	United States
Granted Patent	5355188		08119437	991993	United States
Granted Patent	5367390		08126676	9241993	United States
Granted Patent	5400095		08122697	9171993	United States
Granted Patent	5453803		08243062	5121994	United States
Granted Patent	5459484		08237013	4291994	United States
Granted Patent	5483382		08123133	9171993	United States
Granted Patent	5499036		08115310	911993	United States
Granted Patent	5517263		08279943	7251994	United States
Granted Patent	5537232		08131719	1051993	United States
Granted Patent	5543819		08155480	11191993	United States
Granted Patent	5548422		08084874	6281993	United States
Granted Patent	5555002		08475065	671995	United States
Granted Patent	5563630		08391294	2211995	United States
Granted Patent	5606436		08345601	11281994	United States
Granted Patent	5608551		08415753	431995	United States
Granted Patent	5669688		08655208	671996	United States
Granted Patent	5704700		08506097	7241995	United States
Granted Patent	5721565		08486105	671995	United States
Granted Patent	5722752		08781674	1101997	United States
Granted Patent	5736968		08385997	231995	United States
Granted Patent	5742438		08307223	9161994	United States
Granted Patent	5767916		08760517	1251996	United States
Granted Patent	5793352		08612348	371996	United States

Granted Patent	5815229	08701495	8221996	United States
Granted Patent	5855488	08934484	9191997	United States
Granted Patent	5859623	08645608	5141996	United States
Granted Patent	5861718	08919629	8281997	United States
Granted Patent	5967636	09136799	8191998	United States
Granted Patent	5975704	09030609	2251998	United States
Granted Patent	5978051	08741950	10311996	United States
Granted Patent	6052214	09012889	1231998	United States
Granted Patent	6053615	08904393	811997	United States
Granted Patent	6056405	09173498	10151998	United States
Granted Patent	6155687	09354998	7161999	United States
Granted Patent	6185047	09405425	9221999	United States
Granted Patent	6201246	09127591	7311998	United States
Granted Patent	6334685	09536177	3232000	United States
Granted Patent	6337775	09607181	6292000	United States
Granted Patent	6419365	09557095	4212000	United States
Granted Patent	6424097	09569541	5122000	United States
Granted Patent	6426882	09992040	11212001	United States
Granted Patent	6461025	09737618	12142000	United States
Granted Patent	6471356	09637180	8112000	United States
Granted Patent	6472828	09602348	6232000	United States
Granted Patent	6474818	09627640	7282000	United States
Granted Patent	6475079	09976612	10122001	United States
Granted Patent	6476566	09750388	12272000	United States
Granted Patent	6481855	09760172	1122001	United States
Granted Patent	6508704	09607572	6292000	United States
Granted Patent	6517210	09827869	462001	United States
Granted Patent	6520648	09778225	262001	United States
Granted Patent	6527417	09820112	3282001	United States
Granted Patent	6546149	09418415	10151999	United States
Granted Patent	6547396	10040869	12272001	United States
Granted Patent	6559837	09669091	9252000	United States
Granted Patent	6575603	09734984	12112000	United States
Granted Patent	6595005	09677400	9292000	United States
Granted Patent	6624585	09950749	9102001	United States
Granted Patent	6628094	10208986	7302002	United States
Granted Patent	6635876	09805729	3132001	United States
Granted Patent	6636205	09545989	4102000	United States
Granted Patent	6639365	09961635	9212001	United States
Granted Patent	6646806	10150212	5172002	United States
Granted Patent	6652105	10000171	11302001	United States
Granted Patent	6672724	10040870	12272001	United States

Granted Patent	6678408	09442348	11171999	United States
Granted Patent	6679607	09975239	10112001	United States
Granted Patent	6688747	09877955	682001	United States
Granted Patent	6698892	09978133	10152001	United States
Granted Patent	6719429	09823389	3302001	United States
Granted Patent	6728032	09982312	10172001	United States
Granted Patent	6728402	10463029	6162003	United States
Granted Patent	6735616	09590034	672000	United States
Granted Patent	6767100	10027784	12192001	United States
Granted Patent	6783252	10421526	4212003	United States
Granted Patent	6793341	10396130	3242003	United States
Granted Patent	6793342	10417246	4152003	United States
Granted Patent	6804055	10640156	8122003	United States
Granted Patent	6830340	10033474	12262001	United States
Granted Patent	6853152	10188306	712002	United States
Granted Patent	6860609	10453905	622003	United States
Granted Patent	6863421	10165755	672002	United States
Granted Patent	6896375	10222083	8162002	United States
Granted Patent	6899436	10670721	9242003	United States
Granted Patent	6899440	10150223	5172002	United States
Granted Patent	6899444	10047270	1142002	United States
Granted Patent	6914783	10860375	622004	United States
Granted Patent	6916098	10438630	5142003	United States
Granted Patent	6935746	10417245	4152003	United States
Granted Patent	6935754	10438612	5142003	United States
Granted Patent	6939146	10860558	622004	United States
Granted Patent	6956701	10832716	4262004	United States
Granted Patent	6957232	10195092	7112002	United States
Granted Patent	6957893	10859938	622004	United States
Granted Patent	6962426	09997873	11292001	United States
Granted Patent	6971749	10860380	622004	United States
Granted Patent	6984045	10916060	8102004	United States
Granted Patent	6988806	10732178	1292003	United States
Granted Patent	6989823	09653613	8312000	United States
Granted Patent	6994439	10859873	622004	United States
Granted Patent	6994440	10860556	622004	United States
Granted Patent	6997561	10887004	772004	United States
Granted Patent	6999232	10729103	1252003	United States
Granted Patent	7001025	10883910	722004	United States
Granted Patent	7018043	10858670	612004	United States
Granted Patent	7021775	10859914	622004	United States

Granted Patent	7031063	11213169	8262005	United States
Granted Patent	7033029	10860555	622004	United States
Granted Patent	7044605	10453865	622003	United States
Granted Patent	7044749	11210437	8232005	United States
Granted Patent	7050228	10788001	2252004	United States
Granted Patent	7052143	10860782	622004	United States
Granted Patent	7055956	10916325	8102004	United States
Granted Patent	7059726	10883905	722004	United States
Granted Patent	7076145	10956264	1012004	United States
Granted Patent	7077548	10859872	622004	United States
Granted Patent	7080910	10644232	8192003	United States
Granted Patent	7083284	10836460	4302004	United States
Granted Patent	7086740	10860552	622004	United States
Granted Patent	7088321	09823448	3302001	United States
Granted Patent	7088507	10693615	10232003	United States
Granted Patent	7088509	10753965	162004	United States
Granted Patent	7090354	10825732	4152004	United States
Granted Patent	7091670	10940228	9132004	United States
Granted Patent	7093942	11170759	6282005	United States
Granted Patent	7102820	10753985	162004	United States
Granted Patent	7118220	11263722	10312005	United States
Granted Patent	7121670	11207485	8192005	United States
Granted Patent	7128421	10812452	3292004	United States
Granted Patent	7134549	10444447	5222003	United States
Granted Patent	7140731	11377796	3152006	United States
Granted Patent	7140735	10903966	7302004	United States
Granted Patent	7144133	10804661	3182004	United States
Granted Patent	7150537	10754093	162004	United States
Granted Patent	7150635	11081333	3152005	United States
Granted Patent	7151670	11129604	5132005	United States
Granted Patent	7152440	09974556	1092001	United States
Granted Patent	7162092	10735306	12112003	United States
Granted Patent	7168810	10831399	4232004	United States
Granted Patent	7172289	10836459	4302004	United States
Granted Patent	7172295	10842898	5102004	United States
Granted Patent	7178945	10945581	9202004	United States
Granted Patent	7180475	09877909	672001	United States
Granted Patent	7182462	10858693	612004	United States
Granted Patent	7185988	11231650	9202005	United States
Granted Patent	7178950	11109980	4192005	United States
Granted Patent	7197562	10194334	7112002	United States

Granted Patent	7210794	11129155	5132005	United States
Granted Patent	7237004	10043626	182002	United States
Granted Patent	7246908	11129562	5132005	United States
Granted Patent	7252385	10843829	5112004	United States
Granted Patent	7253954	11457117	7122006	United States
Granted Patent	7255449	10917568	8132004	United States
Granted Patent	7259912	10754092	162004	United States
Granted Patent	7259919	11205507	8162005	United States
Granted Patent	7270419	11231651	9202005	United States
Granted Patent	7277243	10900640	7272004	United States
Granted Patent	7278745	11020074	12212004	United States
Granted Patent	7281803	10987270	11122004	United States
Granted Patent	7290885	11126940	3162005	United States
Granted Patent	7309132	11376826	3152006	United States
Granted Patent	7309134	11205754	8162005	United States
Granted Patent	7310185	11387510	3222006	United States
Granted Patent	7312913	10150438	5172002	United States
Granted Patent	7313589	10260124	9272002	United States
Granted Patent	7321946	11084467	3182005	United States
Granted Patent	7331552	11333963	1172006	United States
Granted Patent	7331678	11435215	5152006	United States
Granted Patent	7341353	10753755	162004	United States
Granted Patent	7350923	11059138	2152005	United States
Granted Patent	7350939	11134156	5202005	United States
Granted Patent	7352507	11131757	5172005	United States
Granted Patent	7362564	11064694	2222005	United States
Granted Patent	7367679	11538398	1032006	United States
Granted Patent	7372628	11146438	662005	United States
Granted Patent	7372883	11069085	2282005	United States
Granted Patent	7375867	11073256	342005	United States
Granted Patent	7384154	11077981	3102005	United States
Granted Patent	7393109	10934078	932004	United States
Granted Patent	7397603	11381895	552006	United States
Granted Patent	7407296	11149940	6102005	United States
Granted Patent	7408202	11099015	442005	United States
Granted Patent	7408527	10835672	4302004	United States
Granted Patent	7413312	11463572	892006	United States
Granted Patent	7413313	10987867	11122004	United States
Granted Patent	7433122	10987983	11122004	United States
Granted Patent	7436592	11438922	5222006	United States
Granted Patent	7442161	10889899	782004	United States

Granted Patent	7447608	10259371	9272002	United States
Granted Patent	7452085	11177432	772005	United States
Granted Patent	7483583	11012985	12142004	United States
Granted Patent	7495829	11238899	9282005	United States
Granted Patent	7513628	11282298	11172005	United States
Granted Patent	7517092	11237194	9272005	United States
Granted Patent	7520622	11293666	1222005	United States
Granted Patent	7541746	11228373	9152005	United States
Granted Patent	7553028	11775686	5112004 (Priority date)	United States
Granted Patent	7554623	11060939	2182005	United States
Granted Patent	7559657	11343616	1302006	United States
Granted Patent	7559659	11609870	12132005 (Priority date)	United States
Granted Patent	7567380	11137702	8162002 (Priority date)	United States
Granted Patent	7567384	11059757	4262004 (Priority date)	United States
Granted Patent	7583325	11089757	3232005	United States
Granted Patent	7599177	11609868	12122006	United States
Granted Patent	D360426	29015282	11121993	United States
Granted Patent	D364379	29017686	1211994	United States
Granted Patent	D381634	29051955	3191996	United States
Granted Patent	D382580	29053404	4221996	United States
Granted Patent	D386509	29055608	671996	United States
Granted Patent	D389850	29052111	3251996	United States
Granted Patent	D443630	29122869	542000	United States
Granted Patent	D482380	29163889	7122002	United States
Granted Patent	D482715	29159166	4152002	United States
Granted Patent	D487767	29181570	5122003	United States
Granted Patent	D488179	29181903	5152003	United States
Granted Patent	D488180	29181904	5152003	United States
Granted Patent	D494994	29171985	1232002	United States
Granted Patent	D502955	29194517	11242003	United States
Granted Patent	D503420	29182940	622003	United States
Granted Patent	D503734	29208038	6222004	United States
Granted Patent	D513030	29214463	9302004	United States
Granted Patent	D514611	29213040	9102004	United States
Granted Patent	D515127	29212418	8312004	United States
Granted Patent	D517109	29225653	3182005	United States
Granted Patent	D520551	29182916	622003	United States
Granted Patent	D531136	29251131	132006	United States



Granted Patent	D536359		29255609	3102006	United States
Granted Patent	D539326		29211471	8162004	United States
Granted Patent	D545341		29256005	3142006	United States
Granted Patent	D550269		29251132	132006	United States
Granted Patent	D552150		29244785	12132005	United States
Granted Patent	D557317		29244688	12122005	United States
Granted Patent	D557319		29245465	12222005	United States
Granted Patent	D559885		29244687	12122005	United States
Granted Patent	D562873		29028037	6222004	United States
Granted Patent	D574877		29298598	1272007	United States
Granted Patent	7594846	2005-0003753	10859908	622004	United States